CLAIMS

1	1. A wireless video communication system, comprising:
2	a transmitter for transmitting encoded video data to a wireless device;
3	a receiver for receiving a return signal from the wireless device;
4	a signal analysis system for analyzing the return signal to determine if a degraded
5	signal condition exists between the transmitter and wireless device; and
6	a recovery system that converts a predictive video frame in the encoded video
7	data into an intra-coded video frame if the degraded signal condition exists.
1	2. The wireless video communication system of claim 1, wherein the encoded video data
2	is encoded under an MPEG format, the predictive video frame comprises a P frame, and
3	the intra-coded video frame comprises an I frame.
1	3. The wireless video communication system of claim 1, wherein the wireless device
2	comprises a cellular device.
1 .	4. The wireless video communication system of claim 1, wherein the wireless device
2	comprises a personal digital assistant.

- 1 5. The wireless video communication system of claim 1, wherein the wireless device
- 2 comprises a video telephone.

- 1 6. The wireless video communication system of claim 1, wherein the degraded signal
- 2 condition is determined to exist if a strength of the return signal fades below a
- 3 predetermined threshold.
- 1 7. The wireless video communication system of claim 1, wherein the degraded signal
- 2 condition is determined to exist if the return signal includes an error message from the
- 3 wireless device.
- 1 8. The wireless video communication system of claim 1, wherein the recovery system
- 2 includes an MPEG decoder.
- 1 9. The wireless video communication system of claim 1, wherein the recovery system is
- 2 remotely accessible over a network.

- 1 10. A program product stored on a recordable medium, which when executed, provides a
- 2 system for recovering encoded video data being transmitted from a base station to a
- 3 wireless device, wherein the program product comprises:
- a system for analyzing a return signal from the wireless device to determine if a
- 5 degraded signal condition exists between the base station and wireless device; and
- a system that converts a predictive video frame in the encoded video data into an
- 7 intra-coded video frame if the degraded signal condition exists.
- 1 11. The program product of claim 10, wherein the encoded video data is encoded under
- 2 an MPEG format, the predictive video frame comprises a P frame, and the intra-coded
- 3 video frame comprises an I frame.
- 1 12. The program product of claim 10, wherein the degraded signal condition is
- 2 determined to exist if a strength of the return signal fades below a predetermined
- 3 threshold.
- 1 13. The program product of claim 10, wherein the degraded signal condition is
- 2 determined to exist if the return signal includes an error message from the wireless
- 3 device.
- 1 14. The program product of claim 10, wherein the system that converts includes an
- 2 MPEG decoder.

- 1 15. A method of recovering lost video data in a wireless video communication system,
- 2 comprising the steps of:
- 3 transmitting encoded video data from a base station to a wireless device;
- 4 receiving at the base station a return signal from the wireless device;
- 5 analyzing the return signal to determine if a degraded signal condition exists
- 6 between the base station and wireless device; and
- 7 converting a predictive video frame in the encoded video data into an intra-coded
- 8 video frame if the degraded signal condition exists.
- 1 16. The method of claim 15, wherein the converting step is done locally at the base
- 2 station.
- 1 17. The method of claim 15, wherein the converting step is done remotely over a
- 2 network.
- 1 18. The method of claim 15, wherein the degraded signal condition exists if a strength of
- 2 the return signal fades below a predetermined threshold.
- 1 19. The method of claim 15, wherein the degraded signal condition exists if the return
- 2 signal includes an error message.

- 1 20. A video recovery system for use when transmitting frames of encoded video from a
- 2 first device to a second device, the system comprising:
- a system for determining if a degraded signal condition exists between the first
- 4 device and the second device; and
- a system that transmits an intra-coded video frame in place of a video frame
- 6 having predictive elements if the degraded signal condition exists.
- 1 21. The video recovery system of claim 20, further comprising a system that converts the
- 2 video frame having predictive elements to the intra-coded video frame.
- 1 22. The video recovery system of claim 21, wherein the system that converts the video
- 2 frame having predictive elements to the intra-coded video frame can operate on one or
- 3 more individual layers.
- 1 23. The video recovery system of claim 20, wherein the video frame having predictive
- 2 elements is encoded using a partial intra refresh method.